

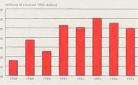
HIGHLIGHTS

supply of coal and uranium have helped Canada become the sixth largest generator of electrical of hydro-electric power and among the top two or of electricity. The immense energy requirements of serve a vast country and withstand severe climatic utility operators. Their technical know-how has also helped build electric power projects in over 70 countries around the world.

■ The manufacture of electric power equipment in Canada is carried on by more than 200 degree by 197 consulting engineering firms.

In 1995, the manufacturers contributed product (GDP) and \$1.7 billion (measured in Equipment imports amounted to \$2.3 billion. In real terms, value-added for the manufacturers

Canadian Electric Power Equipment Shipments



The sector as a whole, including consultancy

■ The equipment manufacturers and consulting try, together with utilities and independent tions of generation, transmission and distribuover 113 000 people and contributes just under across Canada account for 88 000 of these jobs.

The Electric Power Industry



DISTINGUISHING CHARACTERISTICS

With one or two exceptions, the consulting in the sector are Canadian owned, but large both an enabling and a constraining factor. The Canadian subsidiary can take advantage of the contacts, sales force, access to capital and state-of-the-art technology of its parent, but is and may not be permitted to pursue all the

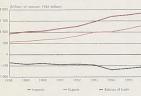
■ The influence and role of Canadian subsidiaries

- tions are crucial to the development of the sector. Strategies for investment retention centre on winning and defending product mandates. this has not always preserved them from
- electric power has been the driving force shaping the sector and today constitutes its principal market. The sizable procurements of the 16 major utilities have created a substantial electric power infrastructure. This infrastructure is characterdesign content, integrated project planning and

Investment spending undertaken by producers of

Exports of electric power equipment increased by 102 percent in real terms between 1988 and 1995 and represented 46 percent of total 1995 power equipment by rank are the United States. the Republic of Korea, the United Kingdom,

Trade Performance



- Exports to the United States accounted for
- Canada is a net importer of electric power





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Sector Competitiveness Frameworks are Canada in collaboration with Canada's key industry

The objective of the Sector Competitiveness Frameworks series is to seek ways in which government and private industry together can strengthen Canada's competitiveness and,

- and imports reflects the international specialization of the equipment industry.
- The provincial utilities take the leading role in research and development (R&D), working undertaken.
- Emerging (mostly renewable) energy technologies such as solar, wind, biomass, without contributing to the carbon dioxide emissions associated with fossil fuels. In the near future, these technologies are projected to play increasing roles, particularly in niche

MAJOR TRENDS

- According to 1995 figures compiled by Natural Resources Canada, electricity demand is expected to grow at an average of 1.4 percent a year between 1995 and 2010. This contrasts with annual average growth in electricity consumption, which was 6.6 percent from 1960 until the 1973-74 oil crisis and 3.2 percent for the period 1975-95. Since demand for equipment and services to a considerable extent is derived from demand for electricity, a similar flattening is anticipated in the sector's domestic business. at least in comparison with the situation in the early 1990s.
- After decades of rapid growth, equipment producers have been forced to concentrate on capacity, and reduce prices and the range of worldwide phenomenon, which has included a series of mega-mergers, and has been furthered trade barriers and the flattening of demand for

- new facilities for power generation. There are entirely have run its course.
- Anticipating a moderation in domestic demand and confronted by a potential surplus of plant capacity, the Canadian equipment and service providers have been concentrating their efforts on export markets. Demand for electric power in developing countries is increasing at more than 10 percent a year. There are many competitive ly the consulting engineers, who enjoy an out-Canadian companies do, however, face tough
- In addition to providing the best technology at the best price, suppliers now must also bring financing to the table and be prepared to bear a significant portion of the project risk. In fact, being considered for participation in interna-

- The electric power industry is undergoing are moving from a comparatively low-risk advantage of a fairly predictable future to an shorter planning horizons. The strategies of
- products, performance guarantees and strong ships, and mergers and acquisitions being undertaken by the electric power industry in an effort to exploit synergies and minimize risks.

■ The business of the equipment and service

■ Convergence between electricity companies and gas companies is already happening and may be extended to include other industries in the production and marketing of electricity and other energy services.

THE BOTTOM LINE

- The sector's prospects should be assessed in both
- If the sector can mobilize its resources effectively, work force for a decade or longer. A vibrant to postpone adjustment to the restructuring of

holders toward making that vision a reality.

It will be impossible to survive in the energy

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